

with a determination” or “upon detecting” or “in response to detecting” that the stated condition precedent is true, depending on the context.

What is claimed is:

1. A method comprising:  
at a device including a non-transitory memory and one or more processors coupled with the non-transitory memory:  
obtaining environmental data corresponding to a physical environment;  
identifying a known physical article located within the physical environment based on the environmental data, wherein the known physical article is associated with a known dimension;  
determining a physical dimension of the physical environment based on the known dimension of the known physical article; and  
generating a computer-generated reality (CGR) environment that represents the physical environment, wherein a virtual dimension of the CGR environment is a function of the physical dimension of the physical environment.
2. The method of claim 1, wherein obtaining the environmental data comprises receiving an image of the physical environment from an image sensor.
3. The method of claim 2, further comprising determining a pose of the image sensor and determining a scaling factor as a function of the pose.
4. The method of claim 1, wherein obtaining the environmental data comprises receiving depth data from a depth sensor.
5. The method of claim 1, further comprising performing at least one of semantic segmentation or instance segmentation on the environmental data to identify the known physical article.
6. The method of claim 1, further comprising identifying an optical machine-readable representation of data associated with the known physical article.
7. The method of claim 1, further comprising obtaining the known dimension of the known physical article.
8. The method of claim 1, wherein the known physical article corresponds to a portion of the environmental data.
9. The method of claim 8, further comprising:  
sending a query for an image search based on the portion of the environmental data to which the known physical article corresponds; and  
receiving, in response to the query, dimension information for the known physical article or dimension information for a physical article within a similarity threshold of the known physical article.
10. The method of claim 1, further comprising:  
sending a query based on a product identifier corresponding to the known physical article; and  
receiving, in response to the query, dimension information for the known physical article or dimension information for a physical article within a similarity threshold of the known physical article.
11. The method of claim 1, further comprising receiving a user input indicating the known dimension of the known physical article.
12. The method of claim 1, further comprising determining the physical dimension of the physical environment

based on the known dimension of the known physical article and a proportion of the known physical article to the physical environment.

13. A device comprising:  
an environmental sensor;  
a display;  
one or more processors;  
a non-transitory memory; and  
one or more programs stored in the non-transitory memory, which, when executed by the one or more processors, cause the device to:  
obtain, via the environmental sensor, environmental data corresponding to a physical environment;  
identify a known physical article located within the physical environment based on the environmental data, wherein the known physical article is associated with a known dimension;  
determine a physical dimension of the physical environment based on the known dimension of the known physical article; and  
generate a computer-generated reality (CGR) environment that represents the physical environment, wherein a virtual dimension of the CGR environment is a function of the physical dimension of the physical environment.
14. The device of claim 13, wherein obtaining the environmental data comprises receiving an image of the physical environment from an image sensor.
15. The device of claim 14, wherein the one or more programs further cause the device to determine a pose of the image sensor and determine a scale factor as a function of the pose.
16. The device of claim 13, wherein obtaining the environmental data comprises receiving depth data from a depth sensor.
17. The device of claim 13, wherein the one or more programs further cause the device to perform at least one of semantic segmentation or instance segmentation on the environmental data to identify the known physical article.
18. The device of claim 13, wherein the one or more programs further cause the device to identify an optical machine-readable representation of data associated with the known physical article.
19. The device of claim 13, wherein the one or more programs further cause the device to obtain the known dimension of the known physical article.
20. A non-transitory memory storing one or more programs, which, when executed by one or more processors of a device, cause the device to:  
obtain, via an environmental sensor, environmental data corresponding to a physical environment;  
identify a known physical article located within the physical environment based on the environmental data, wherein the known physical article is associated with a known dimension;  
determine a physical dimension of the physical environment based on the known dimension of the known physical article; and  
generate a computer-generated reality (CGR) environment that represents the physical environment, wherein a virtual dimension of the CGR environment is a function of the physical dimension of the physical environment.

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